

1615



PATENT  
Attorney Reference Number 6565-73089-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Yang, et al.

Application No. 10/564,401

Filed: January 11, 2006

Confirmation No. 1799

For: THERMOSENSITIVE POLYMERS FOR  
THERAPEUTIC USE AND METHODS OF  
PREPARATION

Examiner: ---

Art Unit: 1615

Attorney Reference No. 6565-73089-01

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney or Agent  
for Applicant(s)

Date Mailed August 14, 2006

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TRANSMITTAL LETTER

Enclosed for filing in the application referenced above are the following:

- ☒ Information Disclosure Statement
- ☒ Form 1449 and references cited thereon
- ☒ The Director is hereby authorized to charge any fees that may be required to Deposit Account No. 02-4550. A copy of this sheet is enclosed.
- ☒ Please return the enclosed postcard to confirm that the items listed above have been received.

Respectfully submitted,

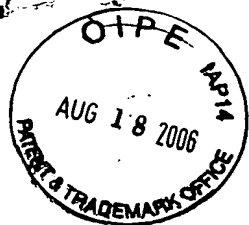
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By

Richard J. Polley  
Registration No. 28,107

cc: Client  
Docketing



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: )  
 )  
YANG, Yi Yan and WANG, Li Shan ) Group Art Unit:  
 )  
Serial No.: 10/564,401 )  
 ) Examiner:  
Filed: January 11, 2006 )  
 ) Attorney Docket No.: 6565-73089-01  
For: THERMOSENSITIVE POLYMERS )  
FOR THERAPEUTIC USE AND METHODS )  
OF PREPARATION )

**PTO Customer No. 24197**

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450  
U.S.A.

Dear Sir:

In accordance with the provisions of 37 CFR 1.56, Applicant hereby makes of record the references set out on the attached forms PTO/SB/08A and PTO/SB/08B.

A copy of the foreign patent documents and the non-patent literature documents are enclosed.

A copy of the reference Nippon Kagaku Kaishi, 11 (1995) 909-915, published in Japanese, is enclosed. Applicant believes that this reference is that the reference discloses a poly(vinyl alcohol) membrane-grafted terpolymer of NIPAAM, HEMA and methacrylic acid, prepared by cross-linking and copolymerization or grafting in which

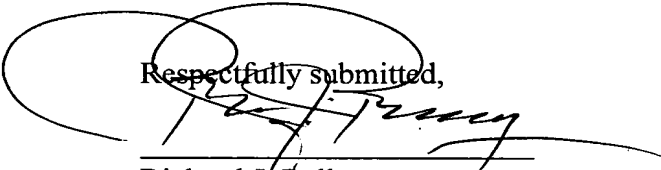
microemulsion polymerization was not employed. No English language translation for this reference is in the possession, custody or control of, or is readily available to, any individual associated with the filing or prosecution of this application.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103, and Applicant reserves the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish otherwise. Moreover, Applicant does not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

It is respectfully requested that the information be expressly considered by the Examiner and that the references be made of record and appear among the "References Cited" on any patent to issue therefrom.

The Patent Office is hereby authorized to charge any deficiency, or credit any overpayment in fees to deposit account no. 19-2548.

Respectfully submitted,

  
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AUGUST 14, 2006  
Date

Enclosures

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/564,401
		Filing Date	January 11, 2006
		First Named Inventor	Yi Yan Yang
		Art Unit	----
		Examiner Name	----
Sheet 2	of 4	Attorney Docket Number	6565-73089-01

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		COCHRANE, C., ET AL. Application of an in vitro model to evaluate bioadhesion of fibroblasts and epithelial cells to two different dressings. Biomaterials. (1999). Pages 1237-1244. Volume 20, Issue 13.	
		ROTHER, M. and FALANGA, V. Growth Factors. Their biology and promise in dermatologic diseases and tissue repair. Arch Dermatol. (1989). Pages 1390-1398. Volume 125, Issue 10.	
		PURNA, S.K. and BABU, M. Collagen based dressings - a review. Burns. February 2000. Pages 54-62. Volume 26, Issue 1.	
		PRUITT, B.A. and LEVINE, N.S. Characteristics and uses of biologic dressings and skin substitutes. Arch Surg. (1984). Pages 312-22. Volume 119, Issue 3.	
		TAKEZAWA, T., ET AL. Cell culture on a thermo-responsive polymer surface. Biotechnology (N Y). September 1990. Pages 854-6. Volume 8, Issue 9.	
		LIN, SHAN-YANG, ET AL. Design and evaluation of drug-loaded wound dressing having thermoresponsive, adhesive, absorptive and easy peeling properties. Biomaterials. November 15, 2001. Pages 2999-3004. Volume 22, Issue 22.	
		RUIZ-CARDONA, L., ET AL. Application of benzyl hyaluronate membranes as potential wound dressings: evaluation of water vapour and gas permeabilities. Biomaterials. 1996. Pages 1639-1643. Volume 17, Issue 16.	
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		ICHIKAWA, H., ET AL. Coating performance of aqueous composite latices with N-isopropylacrylamide shell and thermosensitive permeation properties of their microcapsule membranes. Chemical and Pharmaceutical Bulletin. 1996. Pages 383-391. Volume 44, Issue 2.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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		Examiner Name	----
Sheet 3	of 4	Attorney Docket Number	6565-73089-01

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SUN, YM, ET AL. Temperature-sensitive latex particles for immobilization of a-mylase. Journal of Dispersion Science and Technology. 1999. Pages 907-920. Volume 20, Issue 3.	
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		LEE, WEN-FU and HUANG, YU-LIN. Thermoreversible hydrogels XIV. Synthesis and swelling behavior of the (n-isopropylacrylamide-co-2-hydroxyethyl methacrylate) copolymeric hydrogels. Journal of Applied Polymer Science. (2000) Pages 1769-1781. Volume 77, Issue 8.	
		SUN, YI-MING, ET AL. Preparation and characterization of a-amylase-immobilized thermal-responsive composite hydrogel membranes. Journal of Biomedical Materials Research. (1999) Pages 125-132. Volume 45, Issue 2.	
		BURKE, JF. Observations on the development and clinical use of artificial skin--an attempt to employ regeneration rather than scar formation in wound healing. Jpn. J. Surg. November 1987. Pages 431-8. Volume 17, Issue 6.	
		BIASIA, J., ET AL. Microemulsions: structure and Dynamics (Eds: Friberg SE, Bothorel P) CRC Press, 1997, Ch. 1.	
		CHOW, P.Y. and GAN, L.M. Microemulsion processing of silica-polymer nanocomposites. J Nanosci Nanotechnol. January-February 2004. Pages 197-202. Volume 4, Issues 1-2.	

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		JAMES, J.H. and WATSON, A.C. The use of Opsite, a vapour permeable dressing, on skin graft donor sites. Br. J. Plast. Surg. April 1975. Pages 107-110. Volume 28, Issue 2.	
		LEE, BAE HOON, ET AL. Synthesis and Characterization of Thermosensitive Poly(organophosphazenes) with Methoxy-Poly(ethylene glycol) and Alkylamines as Side Groups. Bull. Korean Chem. Soc. 2002. Vol. 23, No. 4. Pages 549-554.	
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		TICHAGWA, L., ET AL. Selected acrylate and acrylamide-based surfmers and polysoaps and their use in emulsion polymerisation. <a href="http://academic.sun.ac.za/unesco/Conferences/Conference2002/Tichagwa%20(8).pdf">http://academic.sun.ac.za/unesco/Conferences/Conference2002/Tichagwa%20(8).pdf</a> . As of 15 April 2004. Page 1 (abstract)	
		Nippon Kagaku Kaishi, 11 (1995) 909-915	

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